



# HERCULES



# COTEMAR

## VESSEL SPECIFICATIONS

<b>Vessel Name</b>	HERCULES
<b>Port of Registration</b>	Isla del Carmen
<b>Call Sign</b>	XCUN3
<b>IMO Number</b>	9483047
<b>Flag</b>	Mexico
<b>Year Built</b>	2012
<b>Owner Name and Nationality</b>	Cotemar, S.A. de C.V., mexicano
<b>Class</b>	✕ DNV GL 1A1 CLEAN, COMF-V(3), DK(+) DYNPOS-AUTR, E0, HELDK NAUT-OSV(A), SSC
<b>Crane</b>	Rotating Offshore 100 T Crane with articulated arm

## DIMENSIONS

<b>Length</b>	93.5 m
<b>Breadth</b>	19.7 m
<b>Draft</b>	7.70 m
<b>Operating draft</b>	6.30 m
<b>Speed</b>	10 knots
<b>Gross Tonnage</b>	5,756 tons
<b>Net Tonnage</b>	2,087 tons
<b>Fuel capacity</b>	1,700 m <sup>3</sup>
<b>Potable water capacity</b>	630 m <sup>3</sup>

## DP SYSTEM

HERCULES has a Dynamic Position System class II, Kongsberg K-POS 21, DP Consol Kongsberg/K-pos DP (2), C-Joy and C-Wing (independent joysticks), with reference position systems based on five different principles (1 RADIUS, 2 X DGPS, 1 CySCAN, and 1 HIPAP).

## POWER GENERATION

- The vessel is fitted with four Wärtsilä generators (model: 2x W8L26\_2x W8L20) with a capacity of 2x 2600KW 2x 1480KW @900rpm
- 1 Emergency Volvo Penta generator with a capacity of 189 KW @1800rpm



### PROPULSION

The vessel is fitted with two azimuthing WARTSILA LIPS FS-275 S/WN, capacity 2 x 2600 Kw @900 rpm thrusters and three tunnel-type KAWASAKI KT – 157 B5, capacity 3 x 1050 Kw @900 rpm thrusters.

### NAVIGATION EQUIPMENT

- 2 x GPS JRC Japan radio Co. Ltd
- 3 x Gyrocompasses Sperry Marine
- 1 x Magnetic compass Cassen & Plath GMBH
- 1 x Echo-sounder JRC Japan radio Co. Ltd
- 1 x AIS Furuno
- 1 x Navtex Furuno
- 1 x Radar S Furuno Electric Co. Ltd
- 1 x Radar X Furuno Electric Co. Ltd
- 2 x Ecdis Wärtsilä Navi-Sailor 4000
- 1 x GMDSS main station
- 1 x GMDSS backup station
- 2 x Manual command station Wartsila/levers
- 1 x Automatic pilot station Raytheon Anschutz
- 1 x VDR Kelvin Hughes
- 2 x Radio station UHF Motorola
- 2 x Radio station VHF radiotelephone Sailor
- 3 x Radio station VHF radiotelephone ICOM

### AREA AND RESISTANCE OF THE MAIN DECK

Area: 338 m<sup>2</sup>      10 t/m<sup>2</sup> (from frame 1 to 84)  
5 t/m<sup>2</sup> (from frame 84 to 109)

### MACGREGOR CRANE

	Maximum Load	Working Radius
Main hook	100 ton	15 m from the center of the base of the crane
Auxiliary hook	10 ton	32 m from the center of the base of the crane

### ACCOMMODATIONS

The HERCULES has the capacity to accommodate 120 people and a housing module for 208 people distributed in 110 cabins as follows:

- 14 single cabins; 36 double cabins; 7 quadruple cabins; 1 sextuple cabins.
- The HERCULES has offices; 2 meeting rooms; 1 mess room; 4 rooms specially designed as a recreation area; gym; changing rooms with lockers for men and women; waiting room for personnel disembarking by air; doctor's office and hospital with a bathroom and observation or recovery room with 1 bed

### AIR CONDITIONING SYSTEM

The integrated air conditioning system has sufficient power to cover the entire surface of the facilities.

### HELIPAD

The Helipad has a 21 m diameter to operate S92 and equivalent helicopters 28,600 Lbs (13t)

### DECK EQUIPMENT

Capstan: 2 x 10-ton Hydraulic  
Cranes: 2 x 5 ton @ 15 meters radius  
Winches for load securing: 4 x 5 ton

### FRESH WATER MAKER

Fresh water generators. 2 Water treatment plants by reverse osmosis of 35 m<sup>3</sup>/day and 50 m<sup>3</sup>/day, both of which comply with Mexican standard NOM-127-SSA1-1994.

### WASTEWATER TREATMENT PLANT

Three wastewater treatment plants, one model EVAC OY/SPT-125 that can treat up to 10 m<sup>3</sup>/h and two model SEAHORSE/SHTPS-4500 that can treat up to 26 m<sup>3</sup>/h. These treatment plants comply with Annex IV of the of MARPOL rules and with Mexican standard NOM 001-SEMAR-NAT-1996.



### TRASH COMPACTOR

Dolphin Compactors 2960 that can process up to six tons of trash and that complies with Annex V and Annex VI of the MARPOL 73/78 rules.

### FOOD GRINDER

TUFF GUT 5 HP, with power that complies with Exhibit V of the MARPOL rules.

### FIRE MONITORS HELIPAD

Three fire monitors foam base AFFF for helipad.

### LIFE SAVING EQUIPMENT

- Two lifeboats with capacity for 50 people each, fitted with a VHF radio and a SART radar
- One rescue boat with capacity for 15 crewmembers
- 22 life rafts with a capacity for 25 people each
- 06 life rafts with a capacity for 35 people each
- 12 lifebuoys with light and support. Three of the lifebuoys are located on either side strip and have an illuminated and smoke buoy (MOB)
- 377 life jackets of which 328 are located in the cabins: one per person. The remaining life jackets are located on the deck in boxes, for a total of 36 life jackets
- 02 fire stations with C.I. equipment and complete smoke diving suits

### MEDICAL EQUIPMENT

- 1 Neil Robertson stretcher
- 1 Rescue stretcher
- 1 spider strap
- 1 Ambu resuscitator
- 1 head immobilizer
- 1 Emergency oxygen unit
- 1 Fixed Zoll M Series defibrillator
- 1 Portable Welch Allyn defibrillator

### COMUNICATIONS

- The Hercules is fitted with fixed and portable marine VHF and UHF equipment located at strategic points on board, as well as a fixed and portable VHF equipment for helicopter operations located at the navigation bridge and another with the Helicopter Landing Officer (HLO)
- The vessel has a complete Global Maritime Distress Signal System (GMDSS) that is ready for navigation on zones A1, A2, A3, and A4

<b>Satellite Communication System</b>	Skyfile mail satellite systems (for mail service only)
<b>Public Announcement System</b>	Emergency and public announcement equipment
<b>Internal Communication System</b>	Direct Intercom (bridge/control room/radio station/ engine rooms, and high voltage room)
<b>Intercom</b>	Machinery area
<b>Sideband System</b>	Furuno, model FS-2575 C.

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